



The rechargeable batteries are lead-lead dioxide systems. The dilute sulfuric acid electrolyte is absorbed by separators and thus immobilized.

## UN105-12DC (12V105Ah/10hr)

In case the battery be accidentally overcharged producing hydrogen and oxygen, Special one-way valves allow the gases to escape thus avoiding excessive pressure build-up. Otherwise, the battery is completely sealed and is, therefore, maintenance-free, leak proof and usable in any position.

### Battery Construction

Component	Positive plate	Negative plate	Container	Cover	Safety valve	Terminal	Separator	Electrolyte
Raw material	Lead dioxide	Lead	ABS	ABS	Rubber	Copper	Fiberglass	Sulfuric acid

### General Feature

Absorbent Glass Mat (AGM) technology for efficient gas recombination of up to 99% and freedom from electrolyte maintenance or water adding.

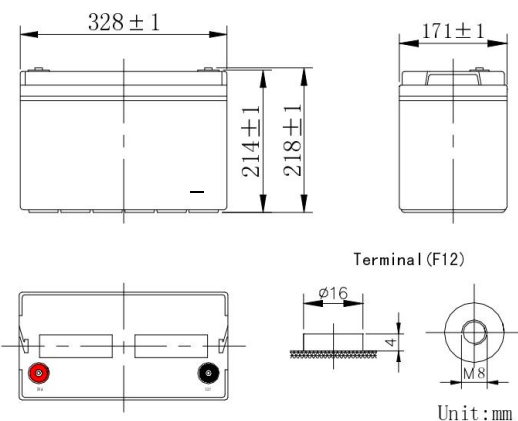
- Not restricted for air transport-complies with IATA/ICAO Special Provision A67. UL-recognized component. Can be mounted in any orientation.
- Computer designed lead, calcium tin alloy grid for high power density. Long service life, float or cyclic applications. Maintenance-free operation.
- Low self discharge.

### Performance Characteristics

Capacity 77°F(25°C)	20 hour rate (5.75A · 10.8V)	115Ah
	10 hour rate (10.5A · 10.8V)	105Ah
	5 hour rate (18.0A · 10.5V)	90Ah
	1 hour rate (75A · 9.6V)	75Ah
Internal Resistance	Full charged Battery 77°F(25°C) : 6mΩ	
Capacity affected by Temperature (10 hour rate)	77° F(25°C)	100%
	50° F(10°C)	90%
	32° F(0 °C)	85%
	5° F(-15°C)	65%
Self-Discharge 68°F(20°C)	Capacity after 3 month storage	90%
	Capacity after 6 month storage	80%
	Capacity after 12month storage	60%
Max. discharge current 77°F(25°C): 1100A(5S)		
Charge (Constant Voltage)	Float : 13.6~13.8 V/77° F/(25°C)	
	Cycle: 14.7~14.9 V/77°F/(25°C) Max. Current : 25.0A	

### SPECIFICATION

Nominal voltage .....	12V
Number of cell .....	6
Length(mm/inch) .....	328/12.9
Width(mm/inch) .....	171/6.74
Height(mm/inch) .....	214/8.43
Total Height(mm/inch) .....	220/8.66
Approx. Weight(kg/lbs).....	31.5/69.39



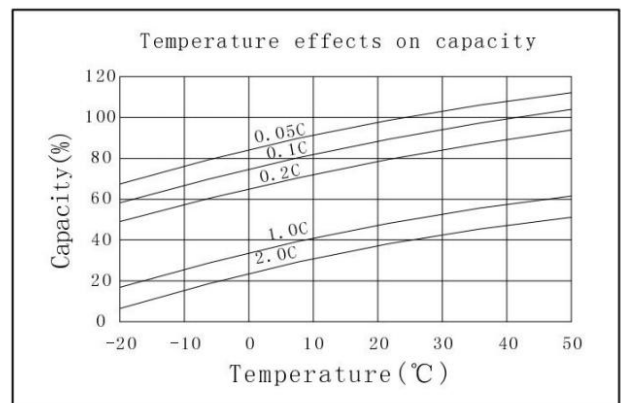
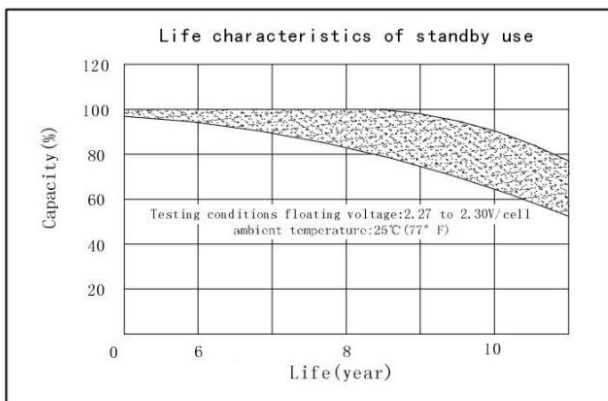
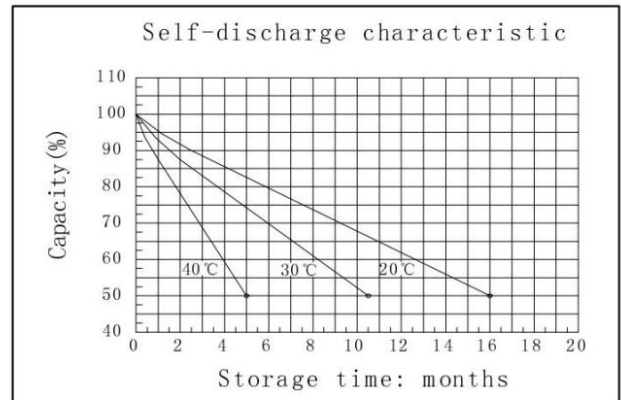
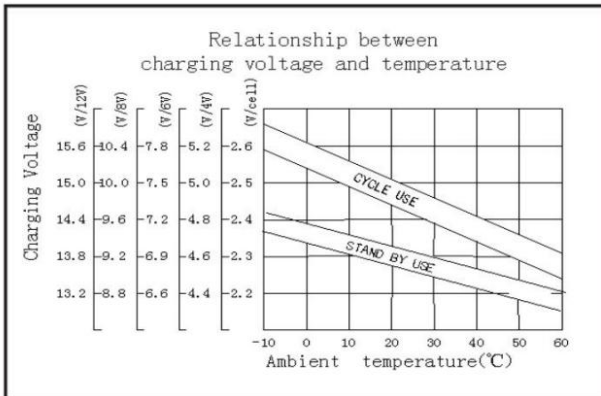
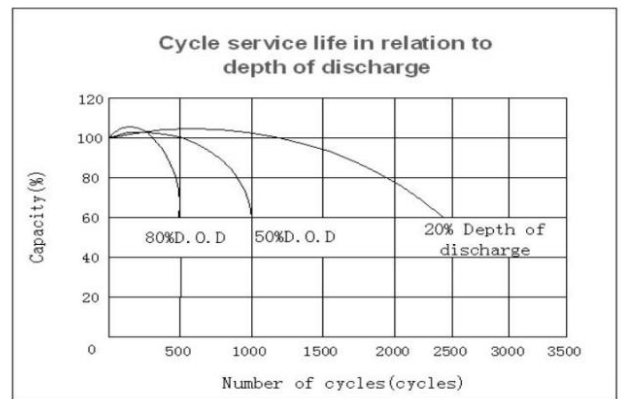
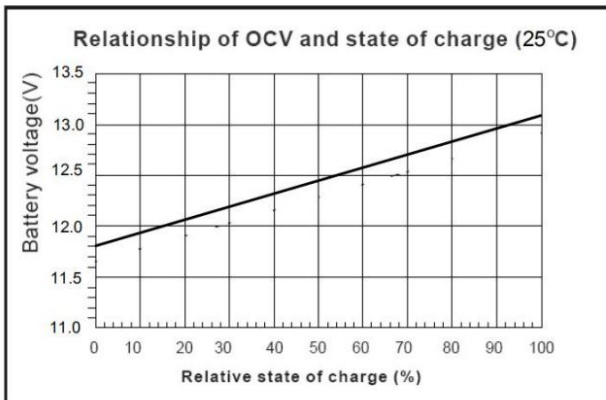
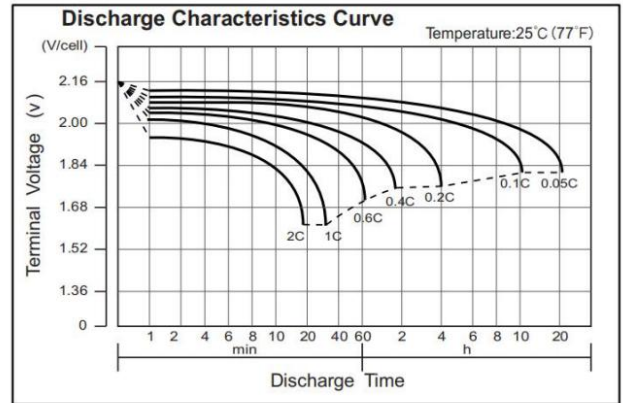
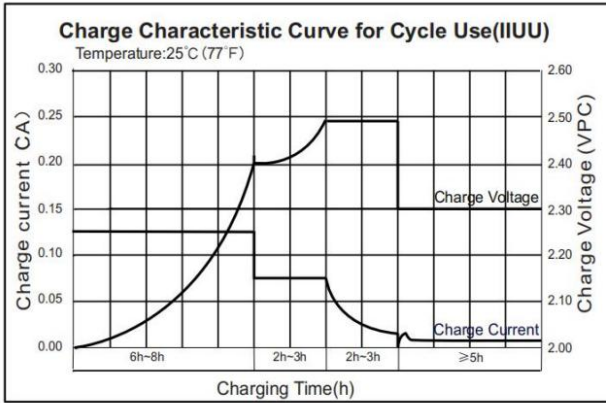
#### Discharge Constant Current (Amperes at 77° F 25 °C)

End Point Volts/Cell	10min	15min	20min	30min	1h	3h	5h	10h	20h
1.60V	283	220	175	125	75.0	29.1	19.2	10.7	5.95
1.65V	270	210	168	122	73.5	28.6	19.0	10.7	5.90
1.70V	255	196	159	118	72.0	28.0	18.4	10.6	5.86
1.75V	240	186	150	114	70.5	27.4	18.0	10.6	5.82
1.80V	223	173	141	109	68.8	26.8	17.8	10.5	5.75

#### Discharge Constant Power (watts at 77° F 25 °C)

End Point Volts/Cell	10min	15min	20min	30min	45min	1h	2h	3h	5h
1.60V	471	388	310	231	168	128	71.0	52.3	35.5
1.67V	445	380	295	220	160	125	69.0	51.0	34.5
1.70V	432	370	289	215	167	123	68.1	50.5	34.1
1.75V	424	358	278	207	152	120	66.6	49.6	33.4
1.80V	396	342	266	197	145	116	64.8	48.5	32.7

(Note) The above characteristics data are average values obtained within three charge/discharge cycles not the minimum values.



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